

## Family Cydnidae (Insecta: Heteroptera) in the Natural History Museum in Belgrade

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**ABSTRACT** At the Natural History Museum in Belgrade there are specimens of 28 species from family Cydnidae, which were mostly collected in Serbia and neighboring Balkan countries. Three species are recorded as new for the Heteropteran fauna of Serbia: *Byrsinus pilosulus* (KLUG), *Macroscytus brunneus* (FABRICIUS) and *Legnotus fumigatus* (A. COSTA). Additions are made to the Catalogue of Heteroptera of Palearctic Region, as follows: the occurrence of *Cydnus aterrimus* (FORSTER) in Canary Islands is confirmed, *Geotomus brunnipennis* WAGNER and *Ochetostethus balcanicus* WAGNER are recorded for the first time from Bosnia-Herzegovina, *G. elongatus* (HERRICH-SCHAEFFER) for the first time from Cyprus and Albania. The problem with the previous citation of Yugoslavia (YU) in the Catalogue of Heteroptera of Palearctic Region is now resolved.

**KEY WORDS:** Heteroptera, Cydnidae, Albania, Canary Islands, Cyprus, Serbia, former Yugoslavia, distribution, new records.

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### INTRODUCTION

In Serbia, the family Cydnidae has not been studied so far specifically. There are some data on individual specimens and records within the papers (HORVÁTH 1903, KORMILEV 1928/29, 1936; PROTIĆ 1988/89, 1993/94) on Heteroptera of Serbia. The Catalogue (PROTIĆ 2001) combines the data on records of Cydnidae species in the region of Ex-Yugoslavia. This paper presents the specimens not published within the Catalogue of Heteroptera of Ex-Yugoslavia (PROTIĆ 2001), as well as the unpublished data on specimens collected outside the boundaries of Ex-Yugoslavia which are kept in the collections of Natural History Museum in Belgrade.

The family Cydnidae has a special significance for the history of faunistic studies of Heteroptera in Serbia, as *Crocistethus aereus* FIEBER, 1861 was described from the territory

of Serbia. Later on it was decided that this was the synonym of the species *C. waltlianus* (FIEBER 1837). The specimen from Serbia was collected by Herman Schmidt Göbl. This is still the only record of this species from Serbia.

The specimens of the family Cydnidae are kept in several separate collections at the Natural History Museum: Study Collection [SZ], Collection of Institute for Plant Conservation in Belgrade [ZB], as well as in the collections by important entomologists: Nikola Kormilev [NK], Petar Novak [PN], Guido Nonveiller [GN], Jovan Stančić [JS] and Ljubodrag Janković [LJJ]. Also included in this analysis are the specimens from the Heteroptera collection at Land Museum of Bosnia-Herzegovina in Sarajevo [ZMBH].

The main goal of this paper was to publish combined data on representatives of the family Cydnidae kept in many different collections and many boxes within the whole Entomological Collection. Once all the specimens were brought together, the revision was performed, and the published results have increased the present knowledge on distribution of certain species.

## RESULTS

These results include new, so far unpublished data on distribution of certain species from family Cydnidae, present in the Heteroptera collections of Natural History Museum in Belgrade. During the revision, numerous papers were used as references, dealing either with individual species or genera from family Cydnidae (JOSIFOV 1980, 1981, 1986, 1986a; KERZHNER 2003; KIS 1984; LINNAVUORI 1993; LIS 1989, 1999, 2006; MAGNIEN 2006; RIZZOTTI VLACH 1995; STEHLIK 1983; STICHEL 1961; ŠTYS 1963; WAGNER 1940, 1951, 1953, 1954, 1956, 1960a). The abbreviations of the countries are according to AUKEMA & RIEGER (2006).

### CYDNIDAE BILLBERG, 1820

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#### CYDNINI BILLBERG, 1864

#### *Cydnus aterrimus* (FORSTER, 1771)

**BH:** Lebršnik (Hercegovina) 27.5.1951. leg. G. Nonveiller [SZ]

**CR:** Split 7.1936. M. Aleksić [SZ]

Busi Island (Dalmatia) 17.7.1938. leg. P. Novak [PN]

**MC:** Valandovo: Marvinci 17.4.1990. leg. T. Trajkovski [SZ]

**ME:** Prokletije: Savino Oko 1007 m 28.6.1987. leg. M. Živković [SZ]

Bar 30.7.1952. leg. G. Nonveiller [ZB]

**RS:** Divčibare 24.7.1958. leg. Lj. Tričković [SZ]

Beograd: Avala 23.5.1954. leg. Lj. Tričković [SZ]

Beograd: Avala 9.5.1998. leg. A. Stojanović[SZ]

Stari Slankamen: Koševac 16.7.2005. leg. A. Stojanović[SZ]

Surčin: Jakovački ključ 1958. leg. Lj. Jankvoić [LJJ]

**CI:** Las Palmas (Canaria) 10.1.1936. leg. P. Novak [PN]

**Ref.** Korlević 1887, Langhoffer 1899, Divac 1907, 1907a, Schumacher 1914, 1916, Horváth 1918, 1930, Kormilev 1928/29, 1936, Živojinović 1950, Novak & Wagner 1951, Daniel 1957, Wagner 1960, Balarin 1963, Göllner-Schaeiding 1982, Marcuzzi 1983, Furlan & Gogala 1995, Strpić 1996, Protić 1985, 1986a, 1987.

### GEOTOMINI WAGNER, 1963

#### *Aethus pilosus* (HERRICH-SCHAEFFER, 1834)

**CR:** Split 2.6.1936 leg. P. Novak (New data on the Split locality)

**Ref.** Novak & Wagner 1951.

#### *Byrsinus flavicornis* (FABRICIUS, 1794)

**GE:** Fürth B. Hainberg 10.5.1934. leg. K. Schmidt [NK]

**IT:** Crotone (Calabria). 10.12.1933. leg. P. Novak [PN]

**TU:** Carthage 7.1914. leg. P. Novak [PN]

**Ref.** Frivaldszky 1877, Novak & Wagner 1951, Petrik 1958, Marcuzzi 1983, Protić 1986a.

#### *Byrsinus pilosulus* (KLUG, 1845)

**IT:** Crotone (Calabria). 10.12.1933 leg. P. Novak [PN]

**RS:** Veliko Gradište 28.7.1956. leg. J. Stančić [SZ]

**Ref.** Novak & Wagner 1951, Josifov 1986.

#### *Geotomus brunipennis* WAGNER, 1953

**BH:** Čapljina (Hercegovina) 22.5.1951. leg. G. Nonveiller [SZ]

Hutovo (Hercegovina) 21.5.1951. leg. G. Nonveiller [SZ]

Grude (Hercegovina) 20.5.1951. leg. G. Nonveiller [SZ]

**Ref.** Horváth 1930, Wagner 1960, 1962, Balarin 1963, Protić 1987.

#### *Geotomus ciliatitylus* SIGNORET, 1881

**AL:** Berat [ZMBH]

**GR:** Athens: Pentelikon leg. Apf. [ZMBH]

**Ref.** Horváth 1916, 1918, Kormilev 1939, Wagner 1962, Balarin 1963, Göllner-Schaeiding 1982, Marcuzzi 1983, Protić 1987.

***Geotomus elongatus* (HERRICH-SCHAEFFER, 1840)***Cydnus elongatus* HERRICH-SCHAEFFER, 1840*Geotomus caucasicus* KOLENATI, 1846**AG:** Nemours 19.11.1933. leg. P. Novak [PN]**AL:** Pulaj [ZMBH]**CY:** Nikosia 8.2.1959. leg. G. Nonveiller [ZB]**GR:** Peloponnese: Astros Leonis [ZMBH]**MO:** Tanger 24.11.1933. leg. P. Novak [PN]**ME:** Prokletije: Gusinje 7.1934. leg. I. Rudski [NK]**TU:** Sfax 20.12.1933. leg. P. Novak [PN]**Ref.** Horváth 1897, Kormilev 1936, Novak & Wagner 1951, Balarin 1963, Protić 1987, Göllner-Schaeiding 1982.***Geotomus punctulatus* (A. COSTA, 1847)****MC:** Valandovo: Marvinci 9.7.1987. leg. T. Trajkovski [SZ]**BH:** Hutovo (Hercegovina) 21.5.1951. leg. G. Nonveiller [SZ]

Čapljina (Hercegovina) 22.5.1951. leg. G. Nonveiller [SZ]

Zavala (Hercegovina) 23.5.1951. leg. G. Nonveiller [SZ]

**Ref.** Apfelbeck 1891, Schumacher 1914, Kormilev 1936, Wagner 1962, Balarin 1963, Protić 1987.***Macroscytus brunneus* (FABRICIUS, 1803)****AL:** Velipoja leg. Mustajbeg [ZMBH]**GR:** Leonis Athens. Attica leg. Kriper [ZMBH]**MO:** Casablanca 25.11.1935. leg. P. Novak [PN]**RS:** Fruška Gora: Iriški Venac 7.8.1978. leg. D. Pavićević [SZ]**Ref.** Apfelbeck 1891, Schumacher 1914, Horváth 1930, Kormilev 1936, Novak & Wagner 1951, Balarin 1963, 1975.***Microporus nigrita* (FABRICIUS, 1794)***Aethus nigrita* REUTER, 1888**AU:** Neusiedler See 4.5.1937. leg. Wirthumer [NK]**RS:** Beograd: Makiš 17.5.1941. leg. B. Petrov [SZ]

Surduk 22.4.2000. 1f leg. A. Stojanović [SZ]

Zemun 25.5.1937., 22.6.1937. leg. G. Nonveiller [PN]

Zemun [Franzthal] on Danube 21.4.1944., 15.5.1944. leg. Kodrić [ZK]

Zemun 18.4.1948. leg. M. Bogavac [ZB]

Ponikve 2.5.1954. leg. J. Stančić [JS]

Tribrod 29.4.1954. leg. J. Stančić [JS]

**SP:** Cartagena 13.11.1935. leg. P. Novak [PN]

**Ref.** Frivaldszky 1877, Kormilev 1936, Živojinović 1950, Novak & Wagner 1951, Petrik 1958, Wagner 1962, Balarin 1963, Protić 1986, 1986a, 1987, Gogala 1991, Furlan & Gogala 1995.

SEHIRINAE AMYOT & SERVILLE, 1843

*Sehirini* AMYOT & SERVILLE, 1843

***Adomerus biguttatus* (LINNAEUS, 1758)**

*Adomerus biguttatus* var. *concolor* NICKERL, 1892

**GE:** Bennstedt: Lintbusch leg. Dr. Feige [PN]

**Ref.** Korlević 1887, Apfelbeck 1891, Károly, 1893, Novak & Wagner 1951, Balarin 1963, Gogala & Gogala 1986, 1989, Protić 1987.

***Canthophorus dubius* (SCOPOLI, 1763)**

*Sehirus dubius* FIEBER, 1861

**BH:** Prolog (Bosna) 21.6.1936 leg. P. Novak [PN]

**CR:** Split 16.6.1939., 20.8.1940. leg. P. Novak [PN]

Strobeč 2.6.1946. leg. P. Novak [PN]

Muč 22.5.1946. leg. P. Novak [PN]

Biokovo 1400 m 5.6.1938. leg. P. Novak [PN]

Mosor: Snježnica 6.1933. [NK]

**MC:** Strumica 21.9.1934. leg. N. Kormilev [NK]

**ME:** Durmitor: Suva Lokva 27.05.2006. leg. M. Obradović, I. Parezanović [SZ]

**RS:** Beograd: Topčider 22.7.1942. leg. B. Petrov [SZ]

Beograd: Vinča 29.7.1997. leg. A. Stojanović [SZ]

Deliblatski Pesak: Devojački Bunar 7.6.2003., 24.4.2006. leg. A. Stojanović [SZ]

**Ref.** Korlević 1887, Apfelbeck 1891, Horváth 1897, Divac 1907, Schumacher 1916, Kormilev 1928/29, 1936; Novak & Wagner 1951, Mancini 1952/53, Daniel 1957, Balarin 1963, Janković 1963, Protić 1985, 1986, 1987, 2003; Gogala & Gogala 1986, 1989.

***Canthophorus impressus* (HORVATH, 1881)**

*Sehirus impressus* HORVATH, 1881

**ME:** Durmitor: Borje 24.7.1981. leg. Lj. Protić [SZ]

**RS:** Kopaonik: Ječmište 25.9.1952., 1.9.1953. leg. Lj. Janković [LJJ]

**Ref.** Horváth 1897, Schumacher 1914, Csiki 1940, Mancini 1952/53, Balarin 1963, Janković 1963, Göllner-Schaeiding 1982, Gogala & Gogala 1986, 1989, Protić 1987, Protić et al. 1990.

***Canthophorus maculipes* MULSANT, 1866**

**IT:** Ischia Island 3.7.1936. leg. Michalk [NK]

**Ref.** Horváth 1907

***Legnotus fumigatus* (COSTA, 1852)**

**RS:** Trgovište, r. Pčinja 14.7.1985. leg. Lj. Protić [SZ]

Banatski Karlovac 30.6.1987. leg. Lj. Protić [SZ]

Deliblatski Pesak: Devojački Bunar 9.8.2003. leg. A. Stojanović [SZ]

**Ref.** Horváth 1897, 1918; Schumacher 1914, Kormilev 1938, Novak & Wagner 1955, Wagner 1962, Balarin 1963, Göllner-Schaeiding 1978, Protić 1987.

***Legnotus limbosus* (GEOFFROY, 1785)**

*Gnathocomus albomarginatus* SCHRANK, 1776

**AU:** Neusiedler See 12.4.1937., 4.5.1937. leg. Wirthumer [NK]

**GE:** Brandenburg: Mühlenbeck Mark Siefke [PN]

Brandenburg: Dubrow Mark Siefke 4.6.1933. [PN]

**HU:** Măriäbesuyö 16.10.1931. leg. Dr. Feige [NK]

**MC:** Skopje 18.6.1933. leg. N. Kormilev [NK]

Galičica 11.7.1936. leg. Dr. Feige [NK]

**ME:** Durmitor: Žabljak 12.7.1954. leg. J. Stančić [SZ]

**RS:** Besna Kobila 1350m 13.7.1985. leg. Lj. Protić [SZ]

Mali Štrbac 626m 15.6.1987. leg. Lj. Protić [SZ]

Goč: Stojanac 16.6.1991. leg. M. Živković [SZ]

Beograd: Banovo Brdo 14.5.1994. leg. A. Stojanović [SZ]

Progar: Bojčinska Šuma 22.4.1996., 22.8.1997. leg. A. Stojanović [SZ]

Beograd: Košutnjak 1.5.1996. leg. A. Stojanović [SZ]

Kosmaj 9.5.1996., 6.6.1998. leg. A. Stojanović [SZ]

Beograd: Avala 9.5.1998., 27.5.2006. leg. A. Stojanović [SZ]

Beograd: Avala 30.3.1999. leg. A. Stojanović, Lj. Protić [SZ]

Beograd: Stepin Gaj 30.4.2001. leg. A. Stojanović [SZ]

Barajevo 1.6.2002. leg. A. Stojanović [SZ]

Grocka: Vrčin 25.5.2002. leg. A. Stojanović [SZ]

Deliblatski Pesak: Devojački Bunar 7.8.2003. leg. A. Stojanović [SZ]

Grocka: Dražanj 2.5.2003. leg. A. Stojanović [SZ]

Grocka: Begaljica 20.5.2006. leg. A. Stojanović [SZ]

**Ref.** Korlević 1887, Apfelbeck 1891, Divac 1907, Kormilev 1936, Balarin 1963, Janković 1963, Gogala & Gogala 1986, 1989, Protić 1985, 1987.

***Legnotus picipes* (FALLEN, 1807)**

**MC:** Skopje 30.6.1936. leg. N. Kormilev [NK]  
Pelister 24.7.1936. leg. Dr. Feige [NK]  
Alipašin Most 18.6.1934. leg. Winneguth [NK]

**RS:** Z atonje 29.6.1985. leg. Lj. Protić [SZ]

**Ref.** Apfelbeck 1891, Horváth 1897, Kormilev 1936, Wagner 1962, Balarin 1963, Gogala & Gogala 1986, 1989; Protić 1986a, 1987, 1994.

***Ochetostethus balcanicus* WAGNER, 1940**

**BH:** Mostar: Grude 20.5.1951. leg. G. Nonveiller [SZ]  
Čapljina: Domanovići 21.05.1951. G. Nonveiller [SZ]  
Bjelašnica: Ljubinje 24.5.1951. leg. G. Nonveiller [SZ]

**CR:** Rava Issland (Dalmatia) 16.6.1938. leg. P. Novak [PN]

**MC:** Skopje 8.6.1932. leg. N. K. [NK]  
Radika:Boškov Most 24.6.1935. leg. N. K. [NK]  
Katlanovo jezero 5.6.1938. leg. N.K. [NK]  
Valandovo 5.7.1940. leg. N.K. [NK]

Mavrovi Hanovi 29.6.1939. leg. P. Novak [PN]

**RS:** Leskovac 30.6.1930. leg. N. K. [NK]

Kosmaj 6.6.1998. leg. A. Stojanović [SZ]

**Ref.** Wagner 1940, Novak & Wagner 1955, Janković 1963, Protić 1986a.

***Ochetostethus nanus* (HERRICH-SCHAEFFER)**

**MO:** Tanger Mar. 24.11.1934. leg. P. Novak [PN]

**Ref.** Lis 1999, 2006.

***Ochetostethus opacus* (SCHOLTZ, 1847)**

**CR:** Svilaja pl. 31.5.1921. leg. P. Novak [PN]

Sinj: Ribarić 10.6.1921. leg. P. Novak [PN]

Mosor 7.6.1937., 6.3.1938., 13.11.1938., 20.11.1938. leg. P. Novak [PN]

**RS:** Usje 26.7.1955. leg. J. Stančić [ JS ]

Požežena 10.7.1955. leg. J. Stančić [ JS ]

**Ref.** Korlević 1887, Frivaldszky 1877, Apfelbeck 1891, Károly, 1893, Horváth 1897, Divac 1907, Schumacher 1914, Kormilev 1928/29, 1936, 1943, Petrik 1958, Wagner 1962, Balarin 1963, Janković 1963, Göllner-Schaeiding 1982, Protić 1986a, 1987.

***Ochetostethus pygmaeus* (RAMBUR, 1839)**

**IT:** Cretone 10.12.1933. leg. P. Novak [PN]

**Ref.** Lis 1999, 2006.

***Sehirus luctuosus* MULSANT & REY, 1866**

**GE:** Eilenburg 10.1.1932. leg. Schnedelbach [NK]

Leipzig: Lindenthal 30.9.1932. leg. Michalk [NK]

Cannewitz 6.4.1932. leg. Jordan [PN]

Daranitz (Sachsen) 14.4.1932. leg. Jordan [PN]

**PL:** Bellinchen a, d. Oder 30.3.-7.4.1934. leg. Michalk [NK]

**Ref.** Kormilev 1928/29, 1936, Csiki 1940, Živojinović 1950, Wagner 1962, Balarin 1963, Göllner-Schaeiding 1982, Gogala & Gogala 1986, 1989, Protić 1987.

***Sehirus morio* (LINNAEUS, 1761)**

**AU:** Neusiedler See, Burgenland 4.5.1937. leg. Wirthumer [NK]

**GE:** Fürth i.B., Hainberg 6.6.1937. leg. J. H. [NK]

**MC:** Marvinci: Pupkov Rid 7.5.1995. leg. T. Trajkovski [SZ]

**PL:** Bellinchen upon Oder 5-25.8.1934. leg. Michalk [PN]

**RS:** Boljevci: Crni Lug 26.4.2003. leg. A. Stojanović [SZ]

Deliblatski Pesak: Devojački Bunar 28.5.2005. leg. A. Stojanović [SZ]

Surduk 6.5.2006. leg. A. Stojanović [SZ]

**Ref.** Frivaldszky 1877, Apfelbeck 1891, Horváth 1897, Kormilev 1936, Csiki 1940, Novak & Wagner 1951, Balarin 1963, Protić 1986.

***Tritomegas bicolor* (LINNAEUS, 1758)**

*Canthophorus bicolor* var. *kormilevi* HALASZFY, 1954

**AU** Zizlau 24.8.1936. leg. Wirthumer [NK]

**CR:** Mosor 7.3.1937., 6.3.1938. leg. P. Novak [PN]

Muč 22.5.1946. leg. P. Novak [PN]

**GE:** Sachsenburg, Thüringen leg. Dr. Feige [PN]

Eisleben in Saxony leg. Dr. Feige [PN]

**RS:** Zemun 22.6.1937. leg. G. Nonveiller [PN]

Čoka (Banat) 30.6.1939. leg. Stanković [ZB]

Beograd: Topčidrer 18.3. 1940 leg. B. Petrov

Beograd: Topčider 15.7.1941. leg. V. Martino [NK]

Zemun 22.3.1948. leg. G. Nonveiller [ZB]

Zemun 14.3.1951. leg. J. Stančić [ZB]

Beška 4.6.1969., 7.6.1969. on *Salvia aethiopsis* leg. M. Bogavac, N. Mitić-Mužina [ZB]

Kovin 9.6.1970. leg. M. Bogavac, N. Mitić-Mužina [ZB]

Beograd: Radmilovac 19.03.1992. leg. Lj. Protić [SZ]

Beograd: Košutnjak 12.4.1996., 20.4.1996., 28.3.1997. leg. A. Stojanović [SZ]

Beograd: Šumarski fakultet, Arboretum 24.6.1996. leg. A. Stojanović [SZ]

Beograd: Topčider 26.4.1997., 1.3.1998. leg. A. Stojanović [SZ]

Beograd: Pinosava 24.5.1998. leg. A. Stojanović [SZ]



Beograd: Avala 23.3.2000. leg. A. Stojanović, Lj. Protić, M. Jovanović [SZ]

Obrenovac: Mala Moštanica: Žuto Brdo 10.6.2000. leg. A. Stojanović [SZ]

Debelo Brdo 13.4.2002. leg. M. Vujanić [SZ]

Grocka: Vrčin 25.5.2002., 12.6.2004. leg. A. Stojanović [SZ]

Beograd: Resnik 31.5.2003. leg. A. Stojanović [SZ]

Zemun 9.5.2004. leg. A. Stojanović [SZ]

**Ref.** Scopoli 1763, Korlević 1887, Apfelbeck 1891, Langhoffer 1899, Horváth 1903, Divac 1907, Kormilev 1928/29, 1936, Csiki 1940, Novak & Wagner 1951, Wagner 1962, Balarin 1963, Göllner-Schaeiding 1982, Gogala & Gogala 1986, 1989, Protić 1985, 1986, 1986a, 1987.

*Tritomegas sexmaculatus* (RAMBUR, 1842)

**CR:** Mosor: Snježnica 6.1933. leg. Copeland [NK]

Mosor 900 m 10.5.1934. leg. P. Novak [PN]

Mosor 26.5.1935. leg. P. Novak [PN]

**MC:** Taor 7.7.1936., 6.5.1938 leg J. Houška. [NK]

Planina Baba 8.5.1988. T. Trajkovski [SZ]

Valandovo: Marvinci 25.5.1989., 7.5.1995. leg. T. Trajkovski [SZ]

**RS:** Požarevac 25.3.1928 leg. N. Kormilev [NK]

Mladenovac 13.5.1953. leg. Lj. Janković [LJJ]

Priština: Grmija 700 m 27.5.1980. leg. P. Jakšić [SZ]

Beograd: Vinča-Radmilovac 3.11.1989. leg. Lj. Protić [SZ]

Titel: Lok 22.08.1991. leg. Lj. Protić [SZ]

Beograd: Košutnjak 12.4.1996., 20.4.1996., 28.3.1997., 25.3.2006. leg. A. Stojanović [SZ]

Beograd: Topčider 1.5.1996. 26.4.1997., 1.3.1998. leg. A. Stojanović [SZ]

Beograd: Resnik 16.6.1997. leg. A. Stojanović [SZ]

Obrenovac: Zabran 6.3.1998. leg. A. Stojanović [SZ]

Surduk 1.8.1998. leg. A. Stojanović [SZ]

Zemun 26.3.2003. leg. A. Stojanović [SZ]

Deliblatski Pesak: Devojački Bunar 7.6.2003., 19.6.2004. leg. A. Stojanović [SZ]

Grocka: Begaljica 24.4.2004. leg. A. Stojanović [SZ]

Deliblatski Pesak: Devojački Bunar 24.4.2006. leg. A. Stojanović [SZ]

**Ref.** Apfelbeck 1891, Korlević 1887, Horváth 1888, 1891, 1918, Langhoffer 1896, 1899, Divac 1907, Schumacher 1916, Kormilev 1928/29, 1936, Novak & Wagner 1951, Wagner 1962, Balarin 1963, Göllner-Schaeiding 1978, Gogala & Gogala 1986, 1989, Protić 1987, Furlan & Gogala 1995.

## DISCUSSION

The Heteroptera collections at Natural History Museum in Belgrade include 28 species of family Cydnidae, collected mostly in Serbia and neighboring Balkan countries (Albania, Bosnia-Herzegovina, Croatia, Macedonia, Montenegro, Slovenia), while only few were from Austria, Italy, Germany, Canary Islands, Cyprus, Tunisia, Morocco, Spain. Altogether 344 specimens were processed, collected from 1921 to 2006.

New localities were determined for 25 species included in the Catalogue (PROTIĆ 2001), as well as 11 new records at already known localities (Table 1).

Changes were made in former citations of *Geotomus caucasicus* (KOLENATI) and *G. ciliatitylus* SIGNORET according to latest literature sources (KERZHNER 2003, LIS 2006).

*Cydnus aterrimus* (FORSTER) was not cited in the Catalogue of Heteroptera of Palearctic Region (LIS 2006) for the Canary Islands, although it was cited by LIS (1999).

*Geotomus brunipennis* WAGNER – new data for Bosnia-Herzegovina and the Catalogue (PROTIĆ 2001).

*Geotomus elongatus* (HERRICH-SCHAEFFER) was identified in the collections of Natural History Museum with specimens collected at Cyprus, and these are new data for Catalogue of Heteroptera of Palearctic Region (LIS 2006). The collection of Land Museum of Bosnia-Herzegovina in Sarajevo also includes a specimen from Albania (Pulaj) – also new data for Catalogue of Heteroptera of Palearctic Region (LIS 2006). The specimen from Prokletije, from the collection of Nikola Kormilev, is the second record of this species in Montenegro.

*Geotomus brunipennis* WAGNER and *Geotomus punctulatus* (A. COSTA) were collected in Herzegovina in the same localities and habitats. These are Mediterranean species. Only *G. brunipennis* was recorded in Serbia, more than 100 years ago, also at a warm habitat in Bela Palanka (BALARIN 1963). The specimen is present in the Land Museum of Bosnia-Herzegovina in Sarajevo.

*Macroscytus brunneus* (FABRICIUS) is a new species for fauna of Serbia, discovered in the collection of Natural History Museum within the unprepared material from 1978.

*Linospa orbicularis* (JAKOVLEV) is a species absent from Europe, while the collection by Nikola Kormilev includes a single specimen from Tunisia (PROTIĆ 1987).

*Adomerus biguttatus* (LINNAEUS) – data on specimens of this species were already published in the previous papers, except for the specimen from Germany present in the collections of PETAR NOVAK.

*Canthophorus dubius* (SCOPOLI) – the specimen from Strumica collected by Kormilev on September 21<sup>st</sup>, 1934, was mistakenly cited in the paper (PROTIĆ 1987b) as *Sehirus luctuosus* MULSANT & REY.

*Canthophorus maculipes* MULSANT – one specimen is present in the collection by Kormilev, acquired by exchange with Michalk from island Ischia in Italy. In the region of Ex-Yugoslavia this species was recorded only in the northern coastal area of Istria, locality Rijeka (HORVÁTH 1907).

Morphometric measurements were performed on species from genus *Legnotus*, with additional corrections cited in the results. *Legnotus fumigatus* (COSTA) is a new species for fauna of Serbia, recorded at the localities Trgovište, Devojački Bunar and Banatski Karlovac. The specimen from Banatski Karlovac was before this revision recorded as *L. picipes* (FALLÉN) (PROTIĆ 1994).

*Legnotus limbosus* (GEOFFROY) - after the revision of Kormilev's collection, it was recognized that the specimen collected at Galičica on July 11<sup>th</sup>, 1936, was mistakenly identified as *L. fumigatus* (COSTA). The Study Collection included a specimen collected at Besna Kobila on July 13<sup>th</sup>, 1985, mistakenly identified as *L. picipes* (FALLÉN). Since 1994, my colleague Stojanović has collected over 30 specimens of this species in the broader surroundings of Belgrade.

*Legnotus picipes* (FALLÉN) – In this species there were also some changes after the revision of specimens from Kormilev's collection. It now also includes specimens collected at Skopje on June 30<sup>th</sup>, 1936, and on Pelister on July 24<sup>th</sup>, 1936, which were previously determined as *L. fumigatus* (COSTA).

*Ochetostethus balcanicus* WAGNER is a new species for fauna of Bosnia-Herzegovina. The revision of specimens of *O. opacus* showed that the specimens from localities: Leskovac, Skopje, Radika, Katlanovo, Valandovo, Mavrovi Hanovi and Rava Islands were actually *O. balcanicus*. At the time when they were collected and identified by Kormilev, *O. balcanicus* still was not described as a species and there was only *O. nanus* (HERRICH-SCHAEFFER). According to the new systematics it is *O. opacus*. According to data collected by LIS (2006), this "species is distributed in the south-western parts of the Mediterranean subregion; records from other European regions pertain to *O. opacus* (SCHOLTZ)".

*Ochetostethus pygmaeus* (RAMBUR) - the collection by PETAR NOVAK includes a specimen from Italy.

The Catalogue (PROTIĆ 2001) cites the species *Sehirus ovatus* (HERRICH-SCHAEFFER) from Croatia and *Tritomegas rotundipennis* Dohrn from Slovenia, but they still have not been recorded in Serbia and there are no specimens in the collections of Natural History Museum.

**Table 1.** List of Cydnidae registered up to now in the Heteroptra collections of Natural History Museum in Belgrade, then in the Republic Serbia, and corrections in species distribution.

Species	Coll. NH M BEO	RS	Citation		New localities	New data on known localities
			Cat. 2001.	Cat. Pal. - YU		
<b>Cydnini</b>						
<i>Cydnus aterrimus</i> (Forster, 1771)	+	+	+	ME,RS	+	+
<b>Geotomini</b>						
<i>Aethus pilosus</i> (Herrich-Schaeffer, 1834)	+	-	+	+	-	+
<i>Byrsinus balcanicus</i> (Josifov, 1986)	+	-	+	-	-	-
<i>Byrsinu flavicornis</i> (Fabricius, 1794)	+	+	+	ME,RS	+	-
<i>Byrsinus fossor</i> (Mulsant & Rey, 1866)	-	+	+	RS	-	-
<i>Byrsinus pilosulus</i> (Klug, 1845)	+	+	+	RS	+	-
<i>Geotomus brunnipennis</i> Wagner, 1953	+	+	+	ME,RS	+	-
<i>Geotomus ciliatitylus</i> Signoret, 1881	+	-	+	ME	+	+
<i>Geotomus elongatus</i> (Herrich-Schaeffer, 1840)	+	+	+	ME,RS	+	+
<i>Geotomus punctulatus</i> (Costa, 1847)	+	-	+	ME	+	-
<i>Macroscytus brunneus</i> (Fabricius, 1803)	+	+	+	RS	+	+
<i>Micropors nigrita</i> (Fabricius, 1794)	+	+	+	RS	+	+
<b>Amaurocorini</b>						
<i>Linospa orbicularis</i> (Jakovlev, 1885)	+	-	-	/	+	-
<b>Sehirini</b>						
<i>Adomerus biguttatus</i> (Linnaeus, 1758)	+	+	+	RS	+	-
<i>Canthophorus dubius</i> (Scopoli, 1763)	+	+	+	ME,RS	+	+
<i>Canthophorus impressus</i> (Horváth, 1880)	+	+	+	ME,RS	+	-
<i>Canthophorus maculipes</i> Mulsant & Rey, 1852)	+	-	+	/	+	-
<i>Canthophorus melanopterus</i> (Herrich-Schaeffer, 1835)	+	+	+	RS	-	-
<i>Crocistethus waltianus</i> (Fieber, 1837)	-	+	+	RS	-	-
<i>Legnotus fumigatus</i> (Costa)	+	+	+	ME,RS	+	+
<i>Legnotus limbosus</i> (Geoffroy)	+	+	+	ME,RS	+	+
<i>Legnotus picipes</i> (Fallén)	+	+	+	ME,RS	+	-

<i>Ochetostethus balcanicus</i> Wagner	+	+	+	RS	+	-
<i>Ochetostethus nanus</i> (Herrich-Schaeffer)	+	-	-	/	+	-
<i>Ochetostethus opacus</i> (Scholtz)	+	+	+	RS	+	+
<i>Ochetostethus pygmaeus</i> (Rambur)	+	-	-	/	+	-
<i>Sehirus luctuosus</i> Mulsant & Rey	+	+	+	RS	+	-
<i>Sehirus morio</i> (Linnaeus)	+	+	+	RS	+	-
<i>Tritomegas bicolor</i> (Linnaeus)	+	+	+	RS	+	-
<i>Tritomegas sexmaculatus</i> (Rambur)	+	+	+	ME,RS	+	+

### CONCLUSIONS

The Heteroptera collections at the Natural History Museum in Belgrade include 28 species of family Cydnidae. Altogether 344 specimens were analyzed. They were collected in the period 1921-2006. The collections also include specimens collected outside of boundaries of Serbia and Ex-Yugoslavia. These specimens were collected by cited collectors-entomologists on their travels, or alternatively they were obtained by exchange with colleagues from other European countries.

Following species were determined as new for fauna of Serbia: *Byrsinus pilosulus* (KLUG), *Macroscytus brunneus* (FABRICIUS) and *Legnotus fumigatus* (A. COSTA), as well as for the Catalogue of Heteroptera (PROTIĆ 2001): *Byrsinus pilosulus* (KLUG), *Geotomus brunipennis* WAGNER, *Geotomus punctulatus* (A. COSTA), *Macroscytus brunneus* (FABRICIUS), *Legnotus fumigatus* (A. COSTA) and *Legnotus limbosus* (GEOFFROY).

For three species, there is some increase in knowledge of their range, when compared with the Catalogue of Heteroptera of Palearctic Region (LIS 2006): *Geotomus brunipennis* WAGNER is distributed in Bosnia-Herzegovina (BH), *Geotomus elongatus* (HERRICH-SCHAEFFER) in Albania and in Cyprus (AL, CY) and *Ochetostethus opacus* (SCHOLTZ) in Morocco (MO).

This paper also includes the distinction in citing certain species from the Catalogue of Heteroptera of Palearctic Region (LIS 2006) which were included in the state YU, which pertained to Serbia and Montenegro. Now the citations are precisely determined for either Serbia (RS) and/or Montenegro (ME).

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Received: June 6, 2007

Accepted: June 19, 2007